

7969-187

12/12/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL, SAFETY  
AND POLLUTION PREVENTION

Charlotte Sanson  
BASF Corporation  
PO Box 13528  
26 Davis Dr.  
Research Triangle Park, NC 27709

DEC 12 2011

Subject: Cabrio EG Fungicide  
EPA Registration No. 7969-187  
Decision No. 456706  
Submission Date: October 14, 2011  
Labeling Amendment

Dear Ms Sanson:

The labeling referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended to update the enumerated list of cucurbit crops, address application instructions for soilborne diseases, and revise diseases which are claimed to be suppressed, is acceptable.

A stamped copy of the master label is enclosed for your records. Please note that we do not review/stamp a supplemental label that is identical to the master label as is this submitted "Additional Application Instructions for Suppression of Soilborne Diseases of the Stem in Fruiting Vegetables" supplemental label. Supplemental labels are submitted when there is something changed from the master label.

Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions, please contact Dominic Schuler at (703) 347-0260 or via email at [schuler.dominic@epa.gov](mailto:schuler.dominic@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish  
Product Manager 22  
Fungicide Branch  
Registration Division (7504P)



The Chemical Company

Group 11 Fungicide

ACCEPTED
DEC 12 2011
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 7969-187

Cabrio EG fungicide

For use in disease control and plant health in the following crops: berries, Brassica, bulb vegetables, cucurbit vegetables, fruiting vegetables, grapes, hops, leafy vegetables, leaves of root and tuber vegetables, pistachio, pome fruit, root vegetables, stone fruits, strawberries, and tree nuts

Active Ingredient:

pyraclostrobin: (carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester) 20.0%

Other Ingredients: 80.0%

Total: 100.0%

EPA Reg. No. 7969-187

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

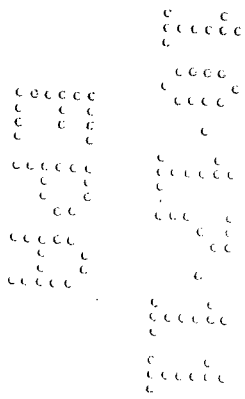
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

See inside for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Net Contents:

BASF Corporation
26 Davis Drive, Research Triangle Park, NC 27709



<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information at 1-800-832-HELP (4357).

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**CAUTION.** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

**Personal Protective Equipment (PPE)**

Some materials that are chemically resistant to this product are listed below. For more options, refer to **Category A** on an EPA chemical-resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate)
- Shoes plus socks

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls Statement**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

### Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours** for all crop uses except when performing cane tying, cane turning or cane girdling on grapes. The REI is **5 days** for treated grapes when conducting cane tying, cane turning or cane girdling.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate)
- Shoes plus socks

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

#### Pesticide Storage

Store in original containers only. Keep container closed when not in use. **DO NOT** store near food or feed.

#### Pesticide Disposal

Wastes resulting from using this product may be disposed of on-site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

(continued)

### STORAGE AND DISPOSAL (continued)

#### Container Handling

**Nonrefillable Container. DO NOT reuse or refill this container.** Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling, if available, or puncture and dispose of in an approved sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Triple rinse containers small enough to shake (capacity ≤ 50 pounds) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Triple rinse containers too large to shake (capacity > 50 pounds) as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

#### In Case of Emergency

In case of large-scale spillage regarding this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

#### Steps to be taken in case material is released or spilled:

- In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.
- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.

- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

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### Product Information

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This package contains **Cabrio® EG fungicide**, a water-dispersible granule (EG). The active ingredient in **Cabrio**, pyraclostrobin, is a member of the **strobilurin class of chemistry** and is derived from a natural antifungal substance. Preventive applications optimize disease control resulting in improved plant health. To maximize disease control, apply **Cabrio** in a regularly scheduled protective spray program and use in a rotation program with other fungicides.

Because of its high specific activity, **Cabrio** has good residual activity against target fungi.

**Cabrio** is not for use in greenhouse or transplant production.

#### Mode of Action

Pyraclostrobin, the active ingredient of **Cabrio**, belongs to the group of respiration inhibitors classified by the US EPA and Canada PMRA as quinone outside inhibitors (QoI), or target site of action **Group 11** fungicides.

#### Resistance Management

**Cabrio** contains pyraclostrobin, a **Group 11** fungicide, and is effective against pathogens resistant to fungicides with modes of action different from those of QoI fungicides (target site **Group 11**), such as dicarboximides, sterol inhibitors, benzimidazoles, or phenylamides.

Fungal isolates resistant to **Group 11** fungicides, such as pyraclostrobin, azoxystrobin, fluoxastrobin, trifloxystrobin, and kresoxim-methyl, can eventually dominate the fungal population if **Group 11** fungicides are used predominantly and repeatedly in the same field in successive years as the primary method of control for the targeted pathogen species. This can result in reduction of disease control by **Cabrio** or other **Group 11** fungicides.

To maintain the performance of **Cabrio** in the field, **DO NOT** exceed the maximum seasonal use rate or the total number of applications of **Cabrio** per season and the maximum number of applications of **Cabrio** stated in **Restrictions and Limitations - All Crops and Table 2. Cabrio® EG fungicide Crop-specific Requirements**. Follow label instructions regarding the use of **Cabrio** or other target site of action **Group 11** fungicides that have a similar site of action on the same pathogens.

When using a **Group 11** fungicide as a solo product, the number of applications must be no more than 1/3 of the total number of fungicide applications per season.

In programs in which tank mixes or pre-mixes of a **Group 11** fungicide with a fungicide of another group are

used, the number of **Group 11** fungicide (QoI)-containing applications must be no more than 1/2 of the total number of fungicide applications per season.

In programs in which applications of **Group 11** fungicides are made with both solo products and mixtures, the number of **Group 11** fungicide (QoI)-containing applications must be no more than 1/2 of the total number of fungicide applications per season.

In fungicide alternation programs of **Group 11** (QoI)-containing fungicides with non-**Group 11** fungicides of different modes of action, the maximum number of sequential applications stated in the **Restrictions and Limitations - All Crops and Table 2. Cabrio® EG fungicide Crop-specific Requirements**, must be alternated with at least an equal number of applications of a non-**Group 11**-containing fungicide prior to using the **Group 11** (QoI)-containing fungicide again. For example, in cases where two sequential applications of a **Group 11** (QoI)-containing fungicide are made, follow this block of applications by two or more applications of a non-**Group 11**-containing fungicide before using the **Group 11** (QoI)-containing fungicide again.

#### Resistance Management Advisory

The following instructions may be considered to delay the development of fungicide resistance:

1. **Tank mixtures** - Use tank mixtures with effective fungicides from different target site of action groups that are registered/permitted for the same use and that are effective against the pathogens of concern. Use at least the minimum labeled rates of each fungicide in the tank mix.
2. **IPM** - Integrate **Cabrio** into an overall disease and pest management program. Follow cultural practices known to reduce disease development. Consult your local extension specialist, certified crop advisor and/or BASF representative for additional IPM strategies established for your area. **Cabrio** can be used in agricultural extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.
3. **Monitoring** - Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development. If a **Group 11** target site fungicide, such as **Cabrio**, appears to be less effective against a pathogen that it previously controlled or suppressed, contact a BASF representative, local extension specialist, or certified crop advisor for further investigation.

## Application Instructions

Apply **Cabrio® EG fungicide** rates as instructed in **Table 2. Cabrio® EG fungicide Crop-specific Requirements**. Apply **Cabrio** with ground sprayer, aerial equipment or through sprinkler irrigation equipment. Check equipment frequently for calibration.

Under low-level disease conditions, use minimum application rates. For severe or threatening disease conditions, use the maximum application rates and shortened spray intervals.

### Cleaning Spray Equipment

Spraying equipment must be cleaned thoroughly before and after applying this product, particularly if a product with potential to injure crops was used prior to **Cabrio**.

### Ground Application

Apply **Cabrio** in sufficient water to ensure thorough coverage of foliage, blooms, and fruit. Thorough coverage is required for optimum disease control. Complete coverage of the stem, all the way down to the soil, is required for suppression of soilborne diseases of the stem.

### Aerial Application

Use no less than 5 gallons of spray solution per acre. For aerial application to tree crops, use no less than 10 gallons of spray solution per acre. **DO NOT** apply when conditions favor drift from target area.

**No aerial application in New York State except as permitted under FIFRA Section 24(c), Special Local Need Registration.**

### Spray Drift Management

**DO NOT** spray when conditions favor drift beyond area intended for application. Conditions that may contribute to drift include thermal inversion, wind speed and direction, spray nozzle/pressure combinations, spray droplet size, temperature/humidity, etc. Contact your state extension agent for spray drift prevention guidelines in your area. All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers. Avoiding spray drift at the application site is the responsibility of the applicator.

### Aerial Application Methods and Equipment

The interaction of many equipment-related and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

**DO NOT** apply under circumstances where possible drift to unprotected persons, to food, forage, or other plantings that might be damaged, or crops thereof rendered unfit for sale, use or consumption can occur.

**DO NOT** release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements **DO NOT** apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the fixed wingspan or 90% of rotor blade diameter.
2. Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they must be observed.

The applicator must be familiar with and take into account the information covered in the aerial drift reduction advisory information.

### Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. Use the largest droplet size consistent with acceptable efficacy. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see **Wind; Temperature and Humidity; and Temperature Inversions**).

#### Controlling droplet size

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift.

### Wind

**DO NOT** apply at wind speeds greater than 15 mph. Drift potential is lowest when wind speed does not exceed 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Avoid applications below 2 mph due to variable wind direction and high inversion potential. Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

## Temperature and Humidity

Low humidity and high temperatures increase the evaporation of spray droplets and, therefore, the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures. When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

## Temperature Inversions

Applications must not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light, variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light-to-no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

## Sensitive Areas

The pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g. bodies of water or nontarget crops) is minimal and when wind is blowing away from the sensitive areas.

## Directions For Use Through Sprinkler Irrigation Systems

### Sprayer Preparation

Chemical tank and injector system must be thoroughly cleaned. Flush system with clean water.

### Application Instructions

Apply **Cabrio® EG fungicide** at rates and timings as required in this label.

### Use Precautions for Sprinkler Irrigation Applications

- Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move irrigation systems. **DO NOT** apply this product through any other type of irrigation system.
- Add this product to the pesticide supply tank containing sufficient water to maintain a continuous flow by the injection equipment. In continuous moving systems, inject this product-water mixture continuously, applying the labeled rate per acre for that crop. **DO NOT** exceed 1/2 inch (13,577 gallons) per acre. In stationary or non-continuous moving systems, inject the product-water

mixture in the last 15 to 30 minutes of each set allowing sufficient time for all of the required pesticide to be applied by all the sprinkler heads and applying the labeled rate per acre for that crop. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. Thorough coverage of foliage is required for good control. Maintain good agitation during the entire application period.

- If you have questions about calibration, contact a state extension service specialist, equipment manufacturers or other experts.
- The system must contain a functional check valve, vacuum-relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

## Specific Instructions for Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily

at least 60 days out of the year.

2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Consult a BASF representative or local agricultural authorities for more information concerning additives.

### Mixing Order

1. **Water** - Begin by agitating a thoroughly clean sprayer tank 3/4 full of clean water.
2. **Agitation** - Maintain constant agitation throughout mixing and application.
3. **Inductor** - If an inductor is used, rinse it thoroughly after each component has been added.
4. **Products in PVA bags** - Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
5. **Water-dispersible products** (such as **Cabrio**, dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
6. **Water-soluble products**
7. **Emulsifiable concentrates** (such as oil concentrates when applicable)
8. **Water-soluble additives** (such as AMS or UAN when applicable)
9. **Remaining quantity of water**

Make sure each component is thoroughly mixed and suspended before adding tank mix partners. Maintain constant agitation during application. See **Table 2. Cabrio® EG fungicide Crop-specific Requirements** for more details.

### Additives and General Tank Mixing Information

**Cabrio® EG fungicide** can be tank mixed with most recommended fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives as specified in **Table 2. Cabrio® EG fungicide Crop-specific Requirements**.

Under some conditions, the use of additives or adjuvants may improve the performance of **Cabrio**. However, all varieties and cultivars have not been tested with possible tank mix combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Cabrio** with other products. Therefore, before using any tank mix (fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives), test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application.

When an adjuvant is to be used with this product, BASF recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

### Restrictions and Limitations - All Crops

- **Maximum seasonal use rate** - **DO NOT** apply more than the maximum rate per acre per season as listed in **Table 1. Cabrio® EG fungicide Restrictions and Limitations Overview** and **Table 2. Cabrio® EG fungicide Crop-specific Requirements**.
- **Maximum rate per application** - **DO NOT** apply more than the maximum rate per acre per application as listed in **Table 1. Cabrio® EG fungicide Restrictions and Limitations Overview** and **Table 2. Cabrio® EG fungicide Crop-specific Requirements**.
- **DO NOT** make more than the total number of applications of **Cabrio** per season, as listed in **Table 1. Cabrio® EG fungicide Restrictions and Limitations Overview** and not exceeding the maximum seasonal use rate. Also see **Table 2. Cabrio® EG fungicide Crop-specific Requirements**.
- **Preharvest Interval (PHI)** - See **Table 1. Cabrio® EG fungicide Restrictions and Limitations Overview** and **Table 2. Cabrio® EG fungicide Crop-specific Requirements**.
- **DO NOT** use **Cabrio** in greenhouse or transplant production.



### Crop Rotation Restriction

Crops listed on the **Cabrio® EG fungicide**, **Headline® fungicide** and **Pristine® fungicide** labels can be planted immediately following the last application. For all other crops, **DO NOT** plant sooner than 14 days after the last application.

### Ground Application Directed or Banded Sprays

The application rates shown in the following tables pertain to both aerial and ground (broadcast) methods of application. **Cabrio** can also be applied as a directed or banded spray over the rows or plant beds, with alleys or row middles left unsprayed. For such uses, reduce the rate of **Cabrio** in proportion to the area actually sprayed. Use this adjustment to prevent applying the product at use rates higher than permitted on this label.

Use the following formula to determine the broadcast equivalent rate for doing directed or banded sprays:

$$\frac{\text{sprayed bed width} + \text{unsprayed row middles width}}{\text{total row width}}$$

$$\frac{\text{sprayed bed width in inches}}{\text{total row width in inches}} \times \frac{\text{broadcast rate}}{\text{treated acre}} = \frac{\text{band rate}}{\text{field acre}}$$

**Example:** A directed spray application will be made to 45 inches plant beds that are separated by 15 inches of unsprayed row middles.

45 inches sprayed bed width + 15 inches unsprayed row middles = 60 inches total row width

The calculations to determine the appropriate equivalent rate of product to use for this situation based on a label broadcast rate of 12 ozs/acre follows:

$$\frac{45 \text{ inches sprayed bed width}}{60 \text{ inches total row width}} \times \frac{12 \text{ ozs Cabrio}}{\text{treated acre}} = \frac{9 \text{ ozs Cabrio}}{\text{field acre}}$$

**Table 1. Cabrio® EG fungicide Restrictions and Limitations Overview\***

<b>Crop**</b>	<b>Minimum Time from Application to Harvest (PHI) (days)</b>	<b>Maximum Product Rate per Acre per Application (ozs)</b>	<b>Maximum Number of Sequential Applications</b>	<b>Maximum Product Rate per Acre per Season (ozs) (lbs ai pyraclostrobin)</b>
<b>Berries Group</b>	0	14	2	56 (0.7)
<b>Brassica, Head and Stem</b>	0	16	2	64 (0.8)
<b>Brassica Leafy Greens</b>	3	16	1	64 (0.8)
<b>Bulb Vegetables Group</b>	7	12	1	72 (0.9)
<b>Cucurbit Vegetables Group***</b>	0	16	1	64 (0.8)
<b>Fruiting Vegetables Group***</b>	0	16	1	96 (1.2)
<b>Grapes****</b>	14	12	2	72 (0.9)
<b>Hops</b>	0	16	2	48 (0.6)
<b>Leafy Vegetables Group*** (except Brassica)</b>	0	16	2	64 (0.8)
<b>Leaves of Root and Tuber Vegetables*** (except sugar beet)</b>	0	16	1	48 (0.6)
<b>Pistachio</b>	14	16	2	64 (0.8)
<b>Pome Fruit</b>	0	12	2	48 (0.6)
<b>Root Vegetables*** (except sugar beet)</b>	0	16	1	48 (0.6)
<b>Stone Fruits Group</b>	0	9.5	2	47.5 (0.6)

(continued)

<b>Table 1. Cabrio® EG fungicide Restrictions and Limitations Overview*</b> <i>(continued)</i>				
<b>Crop**</b>	<b>Minimum Time from Application to Harvest (PHI) (days)</b>	<b>Maximum Product Rate per Acre per Application (ozs)</b>	<b>Maximum Number of Sequential Applications</b>	<b>Maximum Product Rate per Acre per Season (ozs) (lbs ai pyraclostrobin)</b>
<b>Strawberries</b>	0	14	2	70 (0.875)
<b>Tree Nuts Group</b>	14 (for almond - 25 days)	9.5	2	38 (0.475)

\* See **Table 2. Cabrio® EG fungicide Crop-specific Requirements** for complete directions and exceptions.

\*\* For a complete list of crops within a crop group, see **Table 2. Cabrio® EG fungicide Crop-specific Requirements**.

\*\*\* Maximum product rate per acre per application may vary for cucurbit vegetables, fruiting vegetables, leafy vegetables, leaves of root and tuber vegetables, and root vegetables depending on target disease. Refer to **Table 2. Cabrio® EG fungicide Crop-specific Requirements** for maximum rates per application by target disease.

\*\*\*\* **DO NOT** use on Concord, Worden, Fredonia, or related varieties due to possible foliar injury.

Aerial application is permitted for all labeled crops except for hops. **No aerial application in New York State except as permitted under FIFRA Section 24(c), Special Local Need Registration.**

**Table 2. Cabrio® EG fungicide Crop-specific Requirements**

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<p><b>Berries Group</b></p> <p><b>Bushberry</b>                      Blueberry                      Currant                      Elderberry                      Gooseberry                      Huckleberry</p> <p><b>Caneberry</b>                      Blackberry (all varieties)                      Loganberry                      Raspberry (black and red)</p>	<p>Alternaria leaf spot and fruit rot                      (<i>Alternaria</i> spp.)</p> <p>Anthrachnose                      (<i>Colletotrichum</i> spp.,  <i>Elsinoe</i> spp.)</p> <p>Leaf spot and blotch                      (<i>Mycosphaerella</i> spp.,  <i>Septoria</i> spp.)</p> <p>Phomopsis leaf spot, twig blight, and fruit rot                      (<i>Phomopsis</i> spp.)</p> <p>Powdery mildew                      (<i>Sphaerotheca</i> spp.,  <i>Microsphaera</i> spp.,  <i>Oidium</i> spp.)</p> <p>Spur blight                      (<i>Didymella</i> spp.,  <i>Phoma</i> spp.)</p> <p><b>Suppression Only:</b></p> <p>Botrytis gray mold                      (<i>Botrytis cinerea</i>)</p> <p>Monilinia blight                      (<i>Monilinia</i> spp.)</p> <p>Rust                      (<i>Pucciniastrum</i> spp.,  <i>Arthuriomyces</i> spp.,  <i>Phragmidium</i> spp.,  <i>Kuehneola</i> spp.)</p>	<p>14</p>	<p>2</p>	<p>56                      (0.7 lb ai/acre)</p>	<p>0</p>

**Application Directions.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.7 lb ai pyraclostrobin (= 56 ozs **Cabrio**) per acre per season. **DO NOT** make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Brassica, Head and Stem</b> Broccoli Broccoli, Chinese Brussels sprouts Cabbage Cabbage, Chinese Cabbage, Chinese mustard Cauliflower Cavalo broccolo Kohlrabi	Alternaria leaf spot ( <i>Alternaria</i> spp.)  Anthracnose ( <i>Colletotrichum</i> spp.)  Black leg ( <i>Phoma lingam</i> )  Cercospora leaf spot ( <i>Cercospora brassicicola</i> )  Downy mildew ( <i>Peronospora parasitica</i> )  Powdery mildew ( <i>Erysiphe polygoni</i> )  Rhizoctonia blight ( <i>Rhizoctonia solani</i> )  Ring spot ( <i>Mycosphaerella brassicicola</i> )  White leaf spot ( <i>Pseudocercospora capsellae</i> )  White rust ( <i>Albugo candida</i> )	12 to 16	2	64  (0.8 lb ai/acre)	0

**Application Directions.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 14-day interval. Use the higher rate and shorter interval when disease pressure is high.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.8 lb ai pyraclostrobin (= 64 ozs **Cabrio**) per acre per season. **DO NOT** make more than two (2) applications of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Brassica Leafy Greens</b> Broccoli raab Chinese cabbage (bok choy) Collards Kale Mizuna Mustard greens Mustard spinach Rape greens	Alternaria leaf spot ( <i>Alternaria</i> spp.) Anthracnose ( <i>Colletotrichum</i> spp.) Cercospora leaf spot ( <i>Cercospora brassicicola</i> ) Downy mildew ( <i>Peronospora parasitica</i> ) Powdery mildew ( <i>Erysiphe polygoni</i> ) Ringspot ( <i>Mycosphaerella brassicicola</i> ) White rust ( <i>Albugo candida</i> ) <b>Suppression Only:</b> Rhizoctonia stem rot ( <i>Rhizoctonia solani</i> ) Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> ) Southern blight ( <i>Sclerotium rolfsii</i> )	12 to 16	1	64 (0.8 lb ai/acre)	3

**Application Directions.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 10-day interval. Use the higher rate and shorter interval when disease pressure is high.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.8 lb ai pyraclostrobin (= 64 ozs **Cabrio**) per acre per season. **DO NOT** make more than one (1) application of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** *(continued)*

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Bulb Vegetables Group</b> Garlic Leek Onions (all varieties) Shallot	Powdery mildew ( <i>Leveillula taurica</i> )	8 to 12	1	72 (0.9 lb ai/acre)	7
	Purple blotch and leaf blight ( <i>Alternaria porri</i> , <i>Stemphylium vesicarium</i> )  Rust ( <i>Puccinia porri</i> )				
	Downy mildew ( <i>Peronospora destructor</i> )  <b>Suppression Only:</b> Botrytis leaf blight ( <i>Botrytis squamosa</i> )	12			

**Application Directions.** Begin applications of **Cabrio** prior to disease development. Make each application of **Cabrio** in rotation with at least one (1) application of another labeled non-**Group 11** fungicide on a 7-day interval.

Use the higher rate when disease pressure is high.

Applications made to control purple blotch, powdery mildew, and rust will also suppress downy mildew. If downy mildew occurs during a **Cabrio** application for these diseases, immediately follow the **Cabrio** application with another downy mildew fungicide with a different mode of action.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.9 lb pyraclostrobin (= 72 ozs **Cabrio**) per acre per season. **DO NOT** make more than one (1) application of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** *(continued)*

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Carrots	Alternaria leaf spot ( <i>Alternaria</i> spp.) Cercospora leaf spot ( <i>Cercospora</i> spp.) Powdery mildew ( <i>Erysiphe</i> spp.)	8 to 12	1	48 (0.6 lb ai/acre)	0

**Application Direction.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 14-day interval.

Use the higher rate and the shorter interval when disease pressure is high.

No restriction on livestock grazing or feeding for carrot culls.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.6 lb ai pyraclostrobin (= 48 ozs **Cabrio**) per acre per crop growing season. **DO NOT** make more than one (1) application of **Cabrio** before alternating to a labeled fungicide with a different mode of action.



**Table 2. Cabrio® EG fungicide Crop-specific Requirements** *(continued)*

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Cucurbit Vegetables Group</b> <b>Includes all types and hybrids of:</b> Chayote Chinese waxgourd Citron melon Cucumber Gherkin Pumpkin Watermelon  <b>Edible Gourd</b> Chinese okra Cucuzza Hyotan  <b>Momordica spp.</b> Balsam apple Balsam pear Bitter melon Chinese cucumber  <b>Muskmelon</b> Cantaloupe Casaba Crenshaw melon Golden pershaw melon Honeydew melon Honey balls Mango melon Persian melon Pineapple melon Santa Claus melon Snake melon  <b>Summer Squash</b> Crookneck squash Scallop squash Straightneck squash Vegetable marrow Zucchini  <b>Winter Squash</b> Acorn squash Butternut squash Calabaza Hubbard squash Spaghetti squash	Downy mildew <i>(Pseudoperonospora cubensis)</i>	8 to 12	1	64  (0.8 lb ai/acre)	0
	Alternaria blight <i>(Alternaria cucumerina)</i>  Anthracnose <i>(Colletotrichum orbiculare)</i>  Cercospora leaf spot <i>(Cercospora citrulina)</i>  Gummy stem blight <i>(Didymella bryoniae)</i>  Plectosporium blight <i>(Plectosporium tabacinum)</i>  Powdery mildew <i>(Sphaerotheca fuliginea, Erysiphe cichoracearum)</i>  Target leaf spot <i>(Corynespora cassicola)</i>	12 to 16		<b>DO NOT</b> make more than 4 applications per growing season.	

**See Cucurbit Vegetables Group Information following.** *(continued)*

## Cucurbit Vegetables Group Information

**Application Directions.** Begin applications of **Cabrio**<sup>®</sup> **EG fungicide** prior to onset of disease development and continue on a 7- to 14-day interval.

Use the higher rate and the shorter interval when disease pressure is high.

**DO NOT** use **Cabrio** for control of gummy stem blight where resistance to Qol (**Group 11**) fungicides exists.

**Tank Mixes with Adjuvants and Other Products.** BASF evaluations indicate that tank mixes of additives, adjuvants, and/or other products with **Cabrio** on cucurbit vegetables may result in injury. This is particularly true for muskmelon crops such as cantaloupe and honeydew. Users need to be aware of this, proceed with caution, and test for crop safety when tank mixing, as stated below.

Applications of additives, adjuvants, and/or other products that increase penetration may cause injury when mixed with **Cabrio**. Injury potential from these kinds of tank mixes may decrease with lower rates of the tank mix partner. Users are advised to test for crop safety, as stated below.

BASF has not tested all varieties and cultivars with all possible tank mix combinations and rates of additives, adjuvants, and/or other products. Local environmental conditions also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Cabrio** with other products.

To the extent consistent with applicable law, the user assumes all risks associated with adding products to the **Cabrio** spray solution, Refer also to the **Conditions of Sale and Warranty** section of this label.

To minimize the likelihood of crop injury, BASF recommends testing **Cabrio** in combination with additives, adjuvants, and/or other products for crop safety on a small portion of the crop. However, environmental variability precludes direct and consistent projection of small area test results to future use.

Consult a BASF representative for more information concerning additives or adjuvants.

**DO NOT** tank mix **Cabrio** with malathion, **Kelthane**<sup>®</sup> **agricultural miticide**, **Thiodan**<sup>®</sup> **insecticide**, **Phaser**<sup>®</sup> **insecticide**, **Lannate**<sup>®</sup> **insecticide**, **Lorsban**<sup>®</sup> **insecticide**, **M-Pede**<sup>®</sup> **insecticide/fungicide**, or **Botran**<sup>®</sup> **fungicide** as crop injury may result.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.8 lb ai pyraclostrobin (= 64 ozs **Cabrio**) per acre per crop growing season. **DO NOT** make more than one (1) application of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

For additional resistance management information, refer to **Resistance Management**, in the **Product Information** section.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Fruiting Vegetables Group</b> Eggplant Ground cherry Pepino Pepper (all varieties) Tomatillo Tomato*	Anthracnose ( <i>Colletotrichum</i> spp.)  Black mold ( <i>Alternaria alternata</i> )  Early blight ( <i>Alternaria solani</i> )  Septoria leaf spot ( <i>Septoria lycopersici</i> )  Target spot ( <i>Corynespora cassicola</i> )	8 to 12  or  8 to 12 ozs per 100 gallons of spray volume (dilute)**	1	96  (1.2 lbs ai/acre)	0
	Late blight ( <i>Phytophthora infestans</i> )  Powdery mildew ( <i>Leveillula taurica</i> )	8 to 16			
	<b>Suppression Only:</b>  Botrytis gray mold ( <i>Botrytis cinerea</i> )  Rhizoctonia stem rot ( <i>Rhizoctonia solani</i> )  Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> )  Southern blight ( <i>Sclerotium rolfsii</i> )	12 to 16			

\* See the separate **Crop-specific Requirements** for tomato for the maximum number of sequential applications pertaining to this use.

**See Fruiting Vegetables Group Information following.** (continued)

## Fruiting Vegetables Group Information

**Application Directions.** Begin applications of **Cabrio**<sup>®</sup> **EG fungicide** prior to disease development and continue on a 7- to 14-day interval for anthracnose, black mold, early blight, powdery mildew, Septoria leaf spot, and target spot. For control of late blight, begin applications prior to disease development, then follow each application of **Cabrio** with a labeled fungicide with a different mode of action 5 to 7 days later. Use the higher rate and the shorter interval when disease pressure is high.

\*\*For applications based on dilute volume, spray plants to runoff. Apply a minimum of 20 gallons of spray volume per acre, and increase the spray volume as the plants grow during the season. Spray proportional volume to the amount of plant tissue to be covered such that 100 gallons of spray per acre is used on mature plants.

**Use of Adjuvants.** The use of additives or adjuvants may improve the performance of **Cabrio** on fruiting vegetables. However, BASF evaluations also indicate that under some conditions (particularly high temperatures and/or high additive rates), application of **Cabrio** in combination with certain rates of silicone-based or oil-containing (petroleum or crop) additives or adjuvants can cause injury.

BASF has not tested all varieties and cultivars with all possible tank mix combinations and rates of additives or adjuvants. Local environmental conditions also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Cabrio** with other products.

To the extent consistent with applicable law, the user assumes all risks associated with adding products to the **Cabrio** spray solution. BASF cannot be held responsible for crop injury, reduced disease control or incompatibility due to additives, adjuvants or other products used in combination with **Cabrio**. Refer also to the **Conditions of Sale and Warranty** section of this label.

To minimize the likelihood of crop injury, BASF recommends testing **Cabrio** in combination with other products for crop safety on a small portion of the crop. However, *environmental variability precludes direct and consistent projection of small area test results to future use.*

Consult a BASF representative for more information concerning additives or adjuvants.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 1.2 lbs ai pyraclostrobin (= 96 ozs **Cabrio**) per acre per crop growing season. **DO NOT** make more than one (1) application of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

**In Tomato: DO NOT** make more than two (2) applications of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action. For additional *resistance management information, refer to **Resistance Management**, in the **Product Information** section.*

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Grapes</b> <i>Vitis vinifera</i> and <i>rotundifolia</i> (Muscadine varieties only)	Angular leaf spot ( <i>Mycosphaerella angulata</i> )  Anthracnose ( <i>Elsinoe ampelina</i> )  Black rot ( <i>Guignardia bidwellii</i> )  Downy mildew ( <i>Plasmopara viticola</i> )  Mycosphaerella leaf blight ( <i>Pseudocercospora vitis</i> )  Phomopsis ( <i>Phomopsis viticola</i> )  Powdery mildew ( <i>Uncinula necator</i> )  Ripe rot ( <i>Colletotrichum gloeosporioides</i> )  <b>Suppression Only:</b>  Botrytis gray mold ( <i>Botrytis cinerea</i> )	8 to 12	2	72  (0.9 lb ai/acre)	14

**Application Directions.** For powdery mildew control, begin applications of **Cabrio** at pre-bloom on a 10- to 21-day interval. For black rot and downy mildew control, begin applications of **Cabrio** at pre-bloom on a 10- to 14-day interval. For all other diseases listed above, begin applications of **Cabrio** prior to disease development and continue on a 10- to 14-day interval.

Use the higher rate and the shorter interval when disease pressure is high.

**DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours except when performing cane tying, cane turning, or cane girdling. The REI is 5 days for treated grapes when conducting cane tying, cane turning or cane girdling.**

**DO NOT use on Concord, Worden, Fredonia, or related varieties due to possible foliar injury.**

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.9 lb ai pyraclostrobin (= 72 ozs **Cabrio**) per acre per season. **DO NOT** make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-Group 11 fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Hops	Downy mildew ( <i>Pseudoperonospora humuli</i> )  Powdery mildew ( <i>Erysiphe cichoracearum</i> , <i>Sphaerotheca</i> spp.)	8 to 12 ozs per 100 gallons of dilute spray  <b>(DO NOT</b> use more than 16 ozs per acre)*	2	48  (0.6 lb ai/acre)	0

**Application Directions.** Begin applications of **Cabrio** prior to disease development and continue on a 10- to 21-day interval. Prior to trellising, use 8 ozs per 100 gallon dilute rate. Use the shorter interval when disease pressure is high. Application rates are based on 100 gallons of dilute spray. Adjust water volume to maintain thorough coverage up to a maximum of 200 gallons per acre. Use 25 to 50 gallons of dilute spray per acre prior to trellising and 100 to 200 gallons of dilute spray per acre thereafter. **DO NOT** use more than 200 gallons per acre of this mixture.

\*If additional spray volume is needed for thorough coverage, use 16 ozs of **Cabrio** per acre in the required spray volume.

Aerial application is not permitted for use of **Cabrio** in hops.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.6 lb ai pyraclostrobin (= 48 ozs **Cabrio**) per acre per season. **DO NOT** make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-Group 11 fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Leafy Vegetables Group (except Brassica)</b> Amaranth Arugula Cardoon Celery Celery (Chinese) Celtuce Chervil Chrysanthemum (edible-leaved and garland) Corn salad Cress (garden and Upland) Dandelion Dock Endive Fennel (Florence) Lettuce (head and leaf) Orach Parsley Purslane (garden and winter) Radicchio (red chicory) Rhubarb Spinach Spinach (New Zealand and vine) Swiss chard	Alternaria leaf spot ( <i>Alternaria</i> spp.)	12 to 16	2	64  (0.8 lb ai/acre)	0
	Anthracnose ( <i>Colletotrichum</i> spp.)				
	Ascochyta leaf spot ( <i>Ascochyta</i> spp.)				
	Cercospora leaf spot ( <i>Cercospora</i> spp.)				
	Downy mildew ( <i>Peronospora</i> spp.)				
	Powdery mildew ( <i>Erysiphe</i> spp., <i>Phyllactinia</i> spp., <i>Sphaerotheca</i> spp.)				
	Rust ( <i>Puccinia</i> spp., <i>Uromyces</i> spp.)				
	Septoria leaf spot ( <i>Septoria</i> spp.)				
	Lettuce downy mildew ( <i>Bremia</i> spp.)	16			
	White rust ( <i>Albugo candida</i> )	8 to 12			

**Application Directions.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 14-day interval. Use the higher rate and shorter interval when disease pressure is high.

**Tank Mix Restrictions**

**Spinach (all varieties).** **Cabrio** has been reported to injure spinach under certain conditions. **DO NOT** apply **Cabrio** to spinach as a tank mix with any other pesticide products, adjuvants, additives, nutrients or anything other than water.

**Leafy Vegetables (except spinach).** It is impossible for BASF to test all varieties of leafy vegetables for sensitivity to **Cabrio** under all environments and all potential product mixture combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Proceed with caution with regard to **Cabrio** use, particularly in tank mixes and/or adjuvant combinations on leafy vegetables. To reduce the risk of leafy vegetable injury, BASF recommends testing **Cabrio** or **Cabrio** tank mixtures on a small portion of the crop before broadscale use.

To the extent consistent with applicable law, the user assumes all risks associated with adding products to the **Cabrio** spray solution. Refer also to the **Conditions of Sale and Warranty** section of this label.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.8 lb ai pyraclostrobin (= 64 ozs **Cabrio**) per acre per season. **DO NOT** make more than two (2) applications of **Cabrio** before alternating to a labeled non-Group 11 fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Leaves of Root and Tuber Vegetables (except sugar beet)</b> Black salsify Carrot Cassava, bitter and sweet Celeriac Chervil (turnip-rooted) Chicory Dasheen Edible burdock Garden beet Oriental radish Parsnip Radish Rutabaga Sweet potato Tanier Turnip Yam, true	Alternaria leaf spot ( <i>Alternaria</i> spp.)  Cercospora leaf spot ( <i>Cercospora</i> spp.)  Powdery mildew ( <i>Erysiphe</i> spp.)	8 to 12	1	48  (0.6 lb ai/acre)	0
	White rust ( <i>Albugo</i> spp.)	8 to 16			

**Application Directions.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 14-day interval. Use the higher rate and the shorter interval when disease pressure is high.

No restriction on livestock grazing or feeding.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.6 lb ai pyraclostrobin (= 48 ozs **Cabrio**) per acre per season. **DO NOT** make more than one (1) application of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.



**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Pistachio	Late blight ( <i>Alternaria alternata</i> )  Shoot blight ( <i>Botryosphaeria dothidea</i> )	16	2	64  (0.8 lb ai/acre)	14

**Application Directions.** Apply **Cabrio** prior to disease development and continue on a 10- to 30-day interval.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.8 lb ai pyraclostrobin (= 64 ozs **Cabrio**) per acre per season. **DO NOT** make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-Group 11 fungicide with a different mode of action.

For aerial application to pistachio trees, use no less than 10 gallons of spray solution per acre.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Pome Fruit</b> Apple Pear Oriental pear Quince Crabapple Loquat Mayhaw	Alternaria blotch ( <i>Alternaria mali</i> ) Apple scab ( <i>Venturia inaequalis</i> ) Bitter rot ( <i>Colletotrichum</i> spp.) Black rot and Frogeye leaf spot ( <i>Botryosphaeria obtusa</i> ) Cedar apple rust ( <i>Gymnosporangium juniperi-virginianae</i> ) Flyspeck ( <i>Zygophiala jamaicensis</i> ) Pear scab ( <i>Venturia pirina</i> ) Powdery mildew ( <i>Podosphaera leucotricha</i> ) Quince rust ( <i>Gymnosporangium clavipes</i> ) Sooty blotch (Fungal disease complex) White rot ( <i>Botryosphaeria dothidea</i> )	9 to 12	2	48 (0.6 lb ai/acre) <b>DO NOT</b> make more than 4 applications per season.	0

**Application directions for scab, powdery mildew, rust and frogeye leaf spot.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 10-day interval.

Use the shorter interval when disease pressure is high.

**Application directions for sooty blotch, flyspeck, white rot, black rot, bitter rot, and Alternaria blotch.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 14-day interval. Use the shorter interval when disease pressure is high.

No restriction on livestock grazing or feeding.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.6 lb ai pyraclostrobin (= 48 ozs **Cabrio**) per acre per season. **DO NOT** make more than four (4) applications of **Cabrio** or other **Group 11** fungicides per season. **DO NOT** make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action for at least one (1) application.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Root Vegetables (except sugar beet)</b> <b>Subgroup</b> Black salsify Carrot Celeriac Chervil (turnip-rooted) Chicory Edible burdock Garden beet Ginseng Horseradish Oriental radish Parsley (turnip-rooted) Parsnip Radish Rutabaga Salsify Skirret Spanish salsify Turnip	Alternaria leaf spot ( <i>Alternaria</i> spp.) Cercospora leaf spot ( <i>Cercospora</i> spp.) Powdery mildew ( <i>Erysiphe</i> spp.)	8 to 12	1	48  (0.6 lb ai/acre)	0
White rust ( <i>Albugo</i> spp.)	8 to 16				

**Application Directions.** Begin applications of **Cabrio** prior to disease development and continue on a 7- to 14-day interval.

Use the higher rate and the shorter interval when disease pressure is high.

No restriction on livestock grazing or feeding for carrot culls.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.6 lb ai pyraclostrobin (= 48 ozs **Cabrio**) per acre per crop growing season. **DO NOT** make more than one (1) application of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** (continued)

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Stone Fruits Group</b> Apricot Cherry (sweet and tart) Nectarine Peach Plum (all varieties) Plumcot Prune	Alternaria leaf spot ( <i>Alternaria</i> spp.) Anthracnose ( <i>Colletotrichum</i> spp.) Monilinia blossom blight ( <i>Monilinia</i> spp.) Powdery mildew ( <i>Sphaerotheca</i> spp., <i>Podosphaera</i> spp.) Scab ( <i>Cladosporium carpophilum</i> ) Shothole ( <i>Wilsonomyces carpophilus</i> )	9.5	2	47.5 (0.6 lb ai/acre)	0

**Application Directions.** Begin applications of **Cabrio** at pink bud or prior to disease development and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.6 lb ai pyraclostrobin (= 47.5 ozs **Cabrio**) per acre per season. **DO NOT** make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-Group 11 fungicide with a different mode of action.

For aerial application to stone fruit trees, use no less than 10 gallons of spray solution per acre.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** *(continued)*

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Strawberries</b>	Anthracnose <i>(Colletotrichum spp.)</i>  Leaf spot <i>(Mycosphaerella fragariae)</i>  Powdery mildew <i>(Sphaerotheca macularis)</i>  <b>Suppression Only:</b>  Botrytis gray mold <i>(Botrytis cinerea)</i>	12 to 14	2	70  (0.875 lb ai/acre)	0

**Application Directions.** Begin applications of **Cabrio** no later than bloom or prior to disease development and continue on a 7- to 14-day interval.

Use the higher rate and the shorter interval when disease pressure is high.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.875 lb ai pyraclostrobin (= 70 ozs **Cabrio**) per acre per crop growing season. **DO NOT** make more than two (2) applications of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** *(continued)*

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Tomato</b>	Anthracnose <i>(Colletotrichum spp.)</i>	8 to 12	2	96  (1.2 lbs ai/acre)	0
	Black mold <i>(Alternaria alternata)</i>	or			
	Early blight <i>(Alternaria solani)</i>	8 to 12 ozs per 100 gallons of spray volume (dilute)*			
	Septoria leaf spot <i>(Septoria lycopersici)</i>				
Target spot <i>(Corynespora cassicola)</i>		8 to 16			
Late blight <i>(Phytophthora infestans)</i>					
Powdery mildew <i>(Leveillula taurica)</i>		12 to 16			
<b>Suppression Only:</b>					
Botrytis gray mold <i>(Botrytis cinerea)</i>					
Rhizoctonia stem rot <i>(Rhizoctonia solani)</i>					
Sclerotinia stem rot <i>(Sclerotinia sclerotiorum)</i>					
Southern blight <i>(Sclerotium rolfsii)</i>					

**See Tomato Information following.** *(continued)*

## Tomato Information

**Application Directions.** Begin applications of **Cabrio® EG fungicide** prior to disease development and continue on a 7- to 14-day interval for anthracnose, black mold, early blight, powdery mildew, Septoria leaf spot and target spot. For control of late blight, begin applications prior to disease development, then follow each application of **Cabrio** with a labeled fungicide with a different mode of action 5 to 7 days later. Use the higher rate and the shorter interval when disease pressure is high.

\*For applications based on dilute volume, spray plants to runoff. Apply a minimum of 20 gallons of spray volume per acre, and increase the spray volume as the plants grow during the season. Spray proportional volume to the amount of plant tissue to be covered such that 100 gallons of spray per acre is used on mature plants.

**Use of Adjuvants.** The use of additives or adjuvants may improve the performance of **Cabrio** on tomatoes. However, BASF evaluations also indicate that under some conditions (particularly high temperatures and/or high additive rates), application of **Cabrio** in combination with certain rates of silicone-based or oil-containing (petroleum or crop) additives or adjuvants can cause injury.

BASF has not tested all varieties and cultivars with all possible tank mix combinations and rates of additives or adjuvants. Local environmental conditions also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Cabrio** with other products.

To the extent consistent with applicable law, the user assumes all risks associated with adding products to the **Cabrio** spray solution. BASF cannot be held responsible for crop injury, reduced disease control or incompatibility due to additives, adjuvants or other products used in combination with **Cabrio**. Refer also to the **Conditions of Sale and Warranty** section of this label.

To minimize the likelihood of crop injury, BASF recommends testing **Cabrio** in combination with other products for crop safety on a small portion of the crop. However, environmental variability precludes direct and consistent projection of small area test results to future use.

Consult a BASF representative for more information concerning additives or adjuvants.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 1.2 lbs ai pyraclostrobin (= 96 ozs **Cabrio**) per acre per crop growing season. **DO NOT** make more than two (2) applications of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action. For additional resistance management information, refer to **Resistance Management**, in the **Product Information** section.

**Table 2. Cabrio® EG fungicide Crop-specific Requirements** *(continued)*

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Tree Nuts Group</b> Almond Beech nut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert Hickory nut Macadamia nut Pecan Walnut (black and English)	Alternaria leaf spot ( <i>Alternaria</i> spp.) Anthracnose ( <i>Colletotrichum</i> spp.) Blossom blight ( <i>Monilinia</i> spp.) Eastern filbert blight ( <i>Anisogramma anomala</i> ) Leaf rust ( <i>Tranzschelia discolor</i> ) Scab ( <i>Cladosporium carpophilum</i> , <i>C. caryigenum</i> ) Shothole ( <i>Wilsonomyces carpophilus</i> )	9.5	2	38 (0.475 lb ai/acre)	14 (for almond - 25 days)

**Application Directions.** In **almond**, begin applications of **Cabrio** at pink bud and continue on a 7- to 14-day interval. In **filbert**, begin applications at budswell to budbreak, prior to infection and disease development. Continue on a 7- to 14-day interval to cover and protect new growth. In **pecan**, begin application of **Cabrio** prior to disease development and continue on a 7- to 21-day interval. **For all other tree nut crops listed above**, apply **Cabrio** prior to disease development and continue on a 7- to 28-day interval.

In all cases, use the shorter interval when disease pressure is high or shoot growth is very rapid.

No restriction on livestock grazing or feeding for almond hulls.

**Resistance Management.** To limit the potential for development of resistance, **DO NOT** apply more than 0.475 lb ai pyraclostrobin (= 38 ozs **Cabrio**) per acre per season. **DO NOT** make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-**Group 11** fungicide with a different mode of action.

For aerial application to tree nuts, use no less than 10 gallons of spray solution per acre.



**Conditions of Sale and Warranty**

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

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Supersedes: NVA 2009-04-089-0181

BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709



The Chemical Company

Group 11 Fungicide

Supplemental Label



Additional Application Instructions for Suppression of Soilborne Diseases of the Stem in Fruiting Vegetables

This supplemental label expires on December 31, 2014.

Table with 2 columns: Ingredient Name and Percentage. Active Ingredient: pyraclostrobin... 20.0%. Other Ingredients: 80.0%. Total: 100.0%.

EPA Reg. No. 7969-187

Directions For Use

- It is a violation of federal law to use this product in a manner inconsistent with its labeling.
• The supplemental labeling and the entire Cabrio EG fungicide container label, EPA Reg. No. 7969-187, must be in possession of the user at the time of application.
• Read the label affixed to the container for Cabrio before applying.
• Use of Cabrio according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Cabrio.

Application Instructions

Complete coverage of the stem, all the way down to the soil, is required for suppression of soilborne diseases of the stem.
In addition to the soilborne diseases of the stem listed on the Cabrio main label, Cabrio also suppresses the diseases listed on the Cabrio EG fungicide Crop-specific Requirements table in this label.
Refer to the Cabrio main label for additional application instructions and restrictions.

**Cabrio® EG fungicide Crop-specific Requirements**

Crop	Target Disease	Product Use Rate per Application (ozs/A)	Maximum Number of Sequential Applications	Maximum Product Rate per Season (ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
<b>Fruiting Vegetables Group</b> Eggplant Ground cherry Pepino Pepper (all varieties) Tomatillo Tomato*	<u><b>Suppression Only:</b></u> Botrytis gray mold ( <i>Botrytis cinerea</i> ) Rhizoctonia stem rot ( <i>Rhizoctonia solani</i> ) Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> ) Southern blight ( <i>Sclerotium rolfsii</i> )	12 to 16	1	96  (1.2 lbs ai/acre)	0

\* See the separate **Crop-specific Requirements** for tomato on the **Cabrio** main label for the maximum number of sequential applications pertaining to this use.

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